

FIG. 1

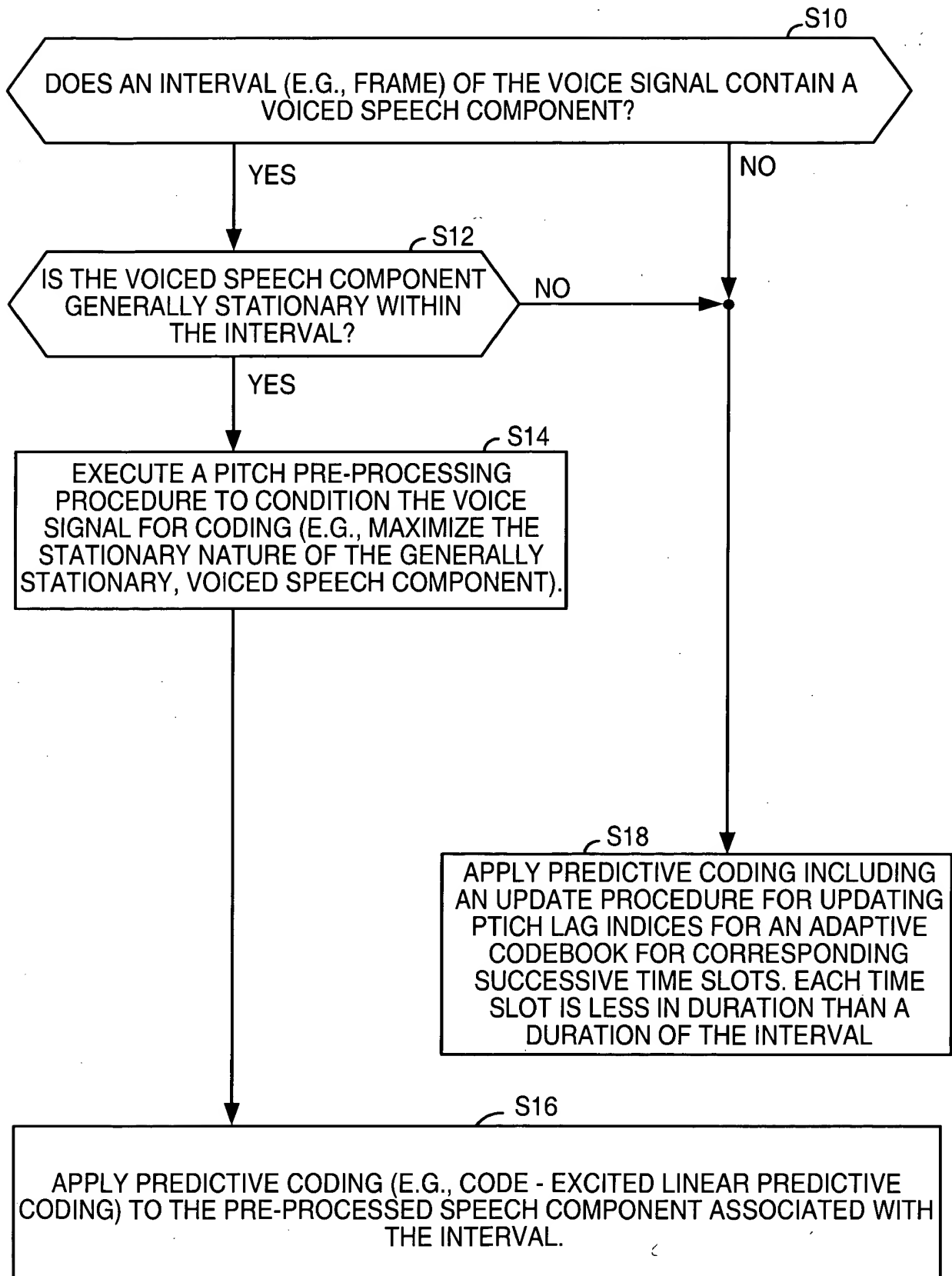


FIG. 2

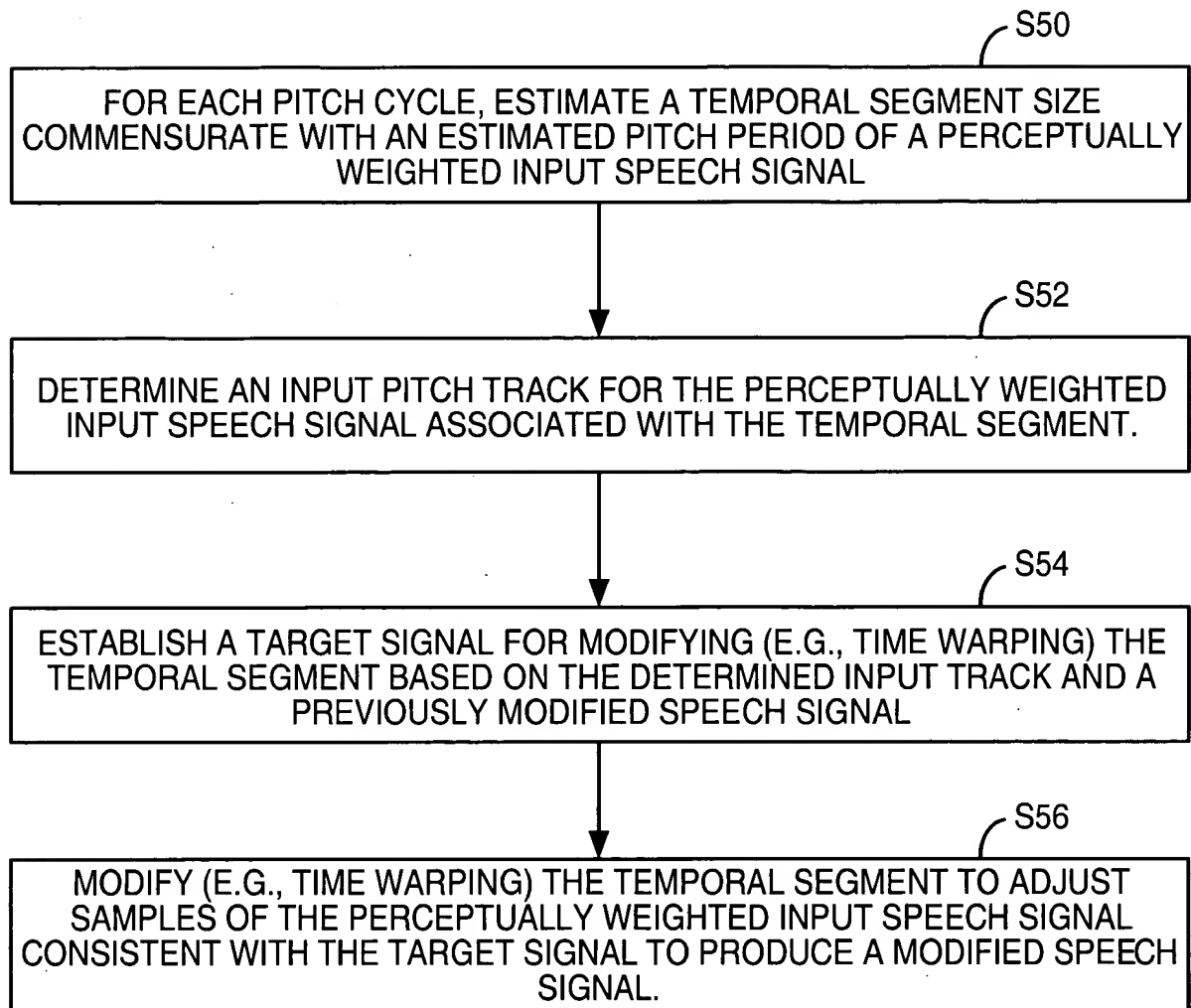


FIG. 3

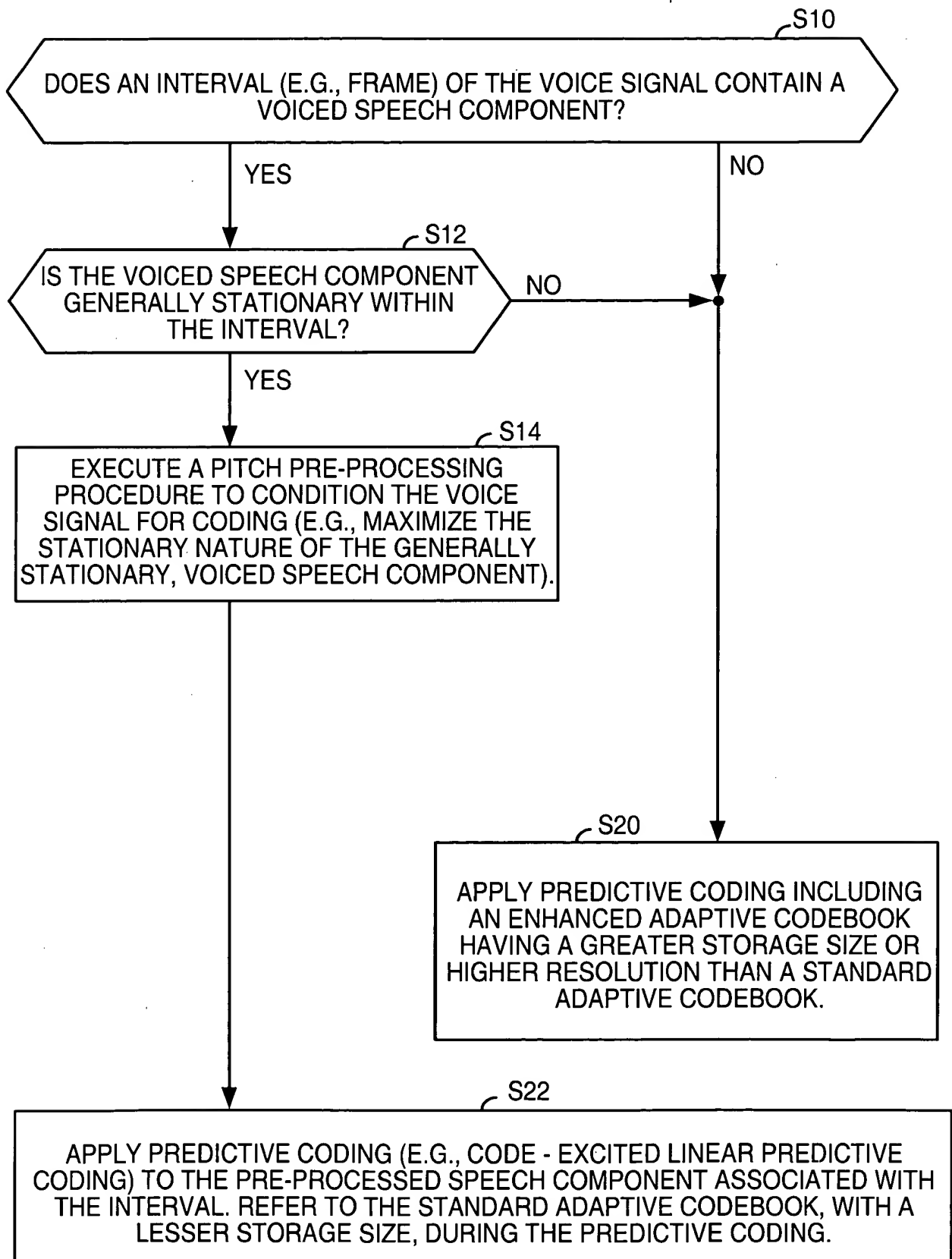


FIG. 4

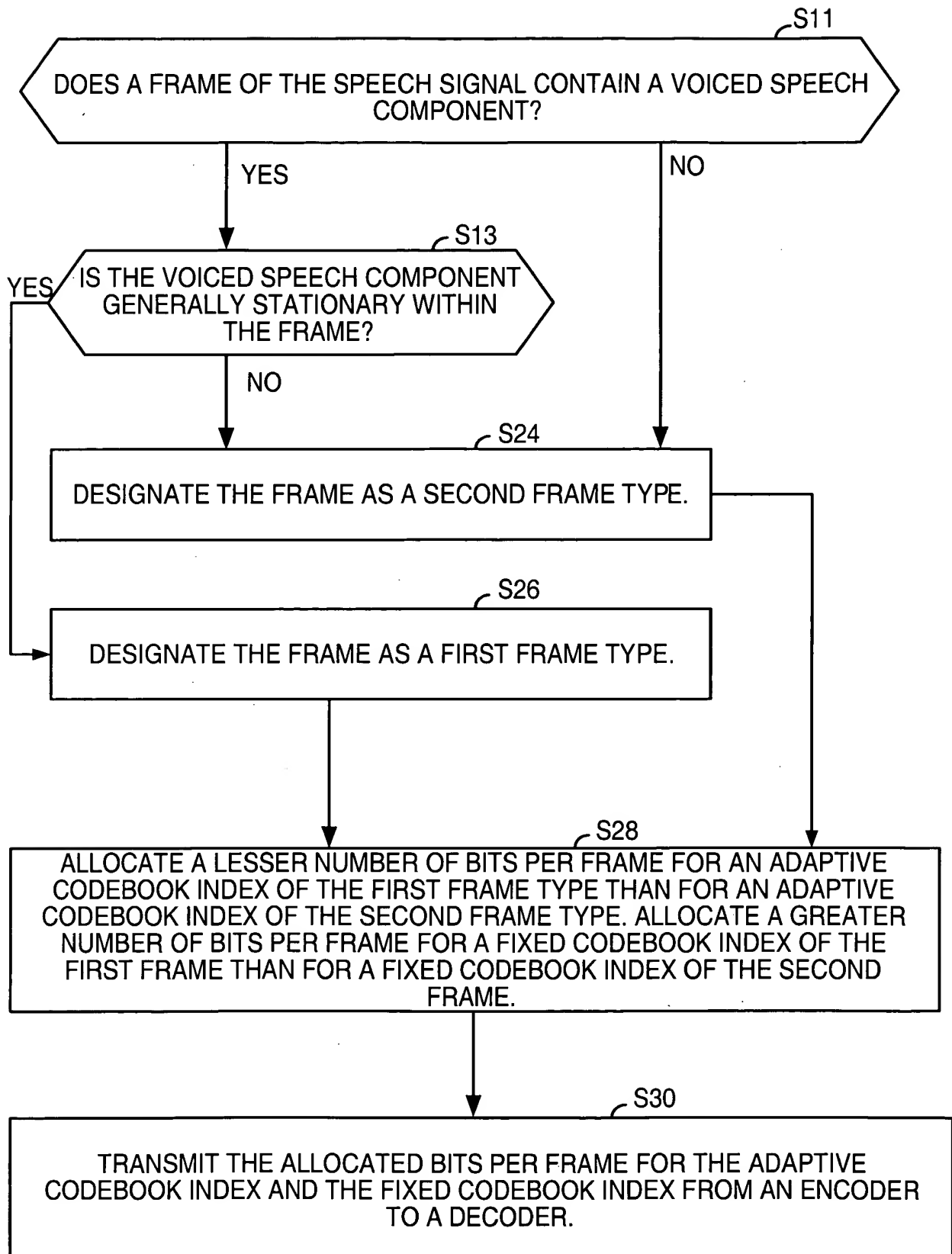


FIG. 5

ENCODING SCHEME	FIRST ENCODING SCHEME 99	SECOND ENCODING SCHEME 97
FRAME DURATION	20 ms	20 ms
FRAME TYPE	1ST FRAME TYPE (4 SUBFRAMES)	2ND FRAME TYPE (4 SUBFRAMES)
FILTER COEFFICIENT INDICATORS (E.G., LSF'S) 76	1ST STAGE 2ND STAGE 3RD STAGE 4TH STAGE 7 BITS 6 BITS 6 BITS 6 BITS 25 BITS	INTERPOLATION 1ST STAGE 2ND STAGE 3RD STAGE 4TH STAGE 2 BIT 7 BITS 6 BITS 6 BITS 6 BITS 27 BITS
TYPE INDICATOR 71	1 BIT	1 BIT
ADAPTIVE CODEBOOK 72	8 BITS/FRAME	8,5,8,5 BITS/SUBFRAME
FILTER CODEBOOK 74	8 - PULSE CODEBOOK 2 ³⁰ ENT./SUBFRAME	5 - PULSE CODEBOOK 2 ²¹ ENT./SUBFRAME 5 - PULSE CODEBOOK 2 ²⁰ ENT./SUBFRAME 5 - PULSE CODEBOOK 2 ²⁰ ENT./SUBFRAME 2 ²² ENT./SUBFRAME
ADAPTIVE CODEBOOK GAIN 80	30 BITS/SUBFRAME	22 BITS/SUBFRAME
FIXED CODEBOOK GAIN 78	4D PRE VQ/FRAME 4D DELAYED VQ/FRAME 6 BITS 10 BITS	7 BITS/SUBFRAME 28 BITS
TOTAL BITS	170 BITS	170 BITS

FIG. 6

ENCODING SCHEME	THIRD ENCODING — 103 SCHEME	FOURTH ENCODING — 101 SCHEME
FRAME DURATION	20 ms	20 ms
FRAME TYPE	3RD FRAME TYPE (3 SUBFRAMES)	4TH FRAME TYPE (2 SUBFRAMES)
LSF'S 76 FILTER COEFFICIENT INDICATORS (E.G., LSF'S)	1 BIT	PREDICTOR SWITCH 1 ST STAGE 2 STAGE 3 RD STAGE
	7 BITS	
	7 BITS	
	6 BITS	
	21 BITS	
TYPE INDICATOR 71	1 BIT	1 BIT
ADAPTIVE CODEBOOK 72	7 BITS/FRAME	7 BITS/SUBFRAME
FIXED CODEBOOK INDEX 74	2 - PULSE CODEBOOK	2 ¹² ENT./SUBFRAME
	3 - PULSE CODEBOOK	2 ¹² ENT./SUBFRAME
		2 ¹³ ENT./SUBFRAME
		2 ¹⁵ ENT./SUBFRAME
ADAPTIVE CODEBOOK GAIN 80	13 BITS/SUBFRAME	15 BITS/SUBFRAME
	3D PRE VQ/FRAME	2D VQ/SUBFRAME
FIXED CODEBOOK GAIN 78	3D DELAYED VQ/FRAME	7 BITS/SUBFRAME
		14 BITS
TOTAL BITS	80 BITS	80 BITS

FIG. 7